

## Claims

- [c1] 1. A method for making a porous electrode, comprising:  
sintering a layer of electrically conductive material to  
form a sintered porous support having a porosity of  
greater than about 10%; and  
infiltrating said sintered porous support with a catalyst.
- [c2] 2. A method for making a porous electrode as in Claim 1,  
wherein the porous electrode has a mean pore size of  
about 2 to about 13 microns.
- [c3] 3. A method for making a porous electrode as in Claim 1,  
wherein said material is nickel, cobalt, titanium, zirconium,  
hafnium, niobium, tungsten, carbon, iron, or mixtures  
or alloys thereof.
- [c4] 4. A method for making a porous electrode as in Claim 1,  
wherein said sintered porous support has a porosity  
greater than about 40%.
- [c5] 5. A method for making a porous electrode, comprising:  
coating an electrically conductive material with a catalyst;  
forming a layer of said coated material; and  
sintering said layer to form the porous electrode,

wherein said porous electrode has a porosity greater than about 20%.

- [c6] 6. A method for making a porous electrode as in Claim 5, wherein said porous electrode has a porosity greater than about 40%.
- [c7] 7. A method for making a porous electrode as in Claim 6, wherein said porous electrode has a mean pore size of about 2 to about 13 microns.
- [c8] 8. A method for making a porous electrode as in Claim 5, wherein said material is nickel, cobalt, titanium, zirconium, hafnium, niobium, tungsten, carbon, iron, or mixtures or alloys thereof.
- [c9] 9. A method for making a porous electrode, comprising coating an electrically conductive, porous support with a solution of catalyst precursor; and converting said catalyst precursor to a catalyst.
- [c10] 10. A method for making a porous electrode as in Claim 9, wherein the electrode has a porosity greater than about 20% by volume.
- [c11] 11. A method for making a porous electrode as in Claim 9, wherein the porous electrode has a mean pore size of about 2 to about 13 microns.

- [c12] 12. A method for making a porous electrode as in Claim 9, wherein said material is nickel, cobalt, titanium, zirconium, hafnium, niobium, tungsten, carbon, iron, or mixtures or alloys thereof.
- [c13] 13. A method for making a porous electrode as in Claim 9, wherein said sintered porous support has a porosity greater than about 40% by volume.